

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Cancelled)
2. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein a display portion of each image captured by said camera is selected for display, said selected display portion of each image comprising less than the entire captured image and wherein said stabilizing adjustment determined by said processing device comprises adjusting a relative location of said selected display portion within said captured image.
3. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein said camera has a selectively adjustable pan position, a selectively adjustable tilt position and a selectively adjustable focal length.
4. (Original) The video image stabilization system of claim 3 wherein at least one of the pan position and the tilt position of said camera is intentionally adjusted between the capture of said first and second images.
5. (Original) The video image stabilization system of claim 3 wherein the focal length of said camera is intentionally adjusted between the capture of said first and second images.
6. (Original) The video image stabilization system of claim 5 wherein said analysis of said first and second images includes transforming one of said first and second images wherein the scale of the one image is adjusted.
- 7 - 10. (Cancelled)
11. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein said signals indicative of the field of view comprise pan, tilt and focal length settings of said camera for each captured image, said signals being communicated to said processing device from said camera on an image-synchronized basis.
12. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein said camera is moveably mounted on a stationary support.
13. (Currently Amended) A video image stabilization system comprising:  
a video camera including an image-capturing device configured to capture images, each captured image associated with a field of view, said camera having at least one selectively

adjustable parameter wherein adjustment of said at least one camera parameter varies the field of view of said camera;

a display device configured to display a selected portion of images captured by said camera; and

a processing device operably coupled to said camera and to said display device wherein said processing device receives signals indicative of said at least one camera parameter and images captured by said camera, said processing device being operable to compensate for inadvertent movement of said video camera by adjusting the selected portion of the images displayed by said display device based upon the signals indicative of said at least one camera parameter and an analysis of a current captured image and a previously captured image, wherein the analysis comprises aligning the current and previously captured images based upon said signals indicative of said at least one camera parameter, generating a histogram of an image difference of said aligned images, and determining the occurrence of unintentional camera movement based on movement of a stationary background portion of the aligned images by identifying a maximum peak in said histogram and a location of said maximum peak, wherein when said maximum peak is not substantially centered on zero, unintentional motion is determined to have occurred and wherein said adjusting of the selected portion of the images displayed by said display device makes adjustments that minimize said image difference.

14. (Previously Presented) The video image stabilization system of claim 13 wherein said signal indicative of at least one camera parameter includes a signal indicative of pan, tilt and zoom settings.

15. (Previously Presented) The video image stabilization system of claim 13 wherein the selected portion of the video image comprises a central portion of the video image.

16. (Previously Presented) The video image stabilization system of claim 13 wherein the selected portion of the video image includes approximately between 60% and 90% of the video image.

17. (Cancelled)

18. (Currently Amended) The method of claim [[17]] 31 wherein the camera defines a pan position and a tilt position and at least one of the pan position and the tilt position of the camera is intentionally adjusted between the capture of said first and second images.

19. (Currently Amended) The method of claim [[17]] 31 wherein a focal length of the camera is intentionally adjusted between the capture of said first and second images.

20. (Original) The method of claim 19 wherein the analysis of the first and second images includes transforming one of the first and second images wherein the scale of the one image is adjusted.

21 -24. (Cancelled)

25. (Currently Amended) A method of stabilizing a video image, said method comprising:  
intentionally varying a field of view of a video camera by use of control signals;  
capturing a plurality of images with the camera, each of the images being associated with a field of view;

displaying a selected portion of each of the plurality of images;

aligning a current captured image and a previously captured image based upon said control signals;

generating a histogram of an image difference of said aligned images;

determining whether inadvertent camera movement has occurred based upon identifying a maximum peak in said histogram and a location of said maximum peak, wherein when said maximum peak is not substantially centered on zero, inadvertent motion is determined to have occurred; and

~~determining the occurrence of inadvertent movement of the video camera by detecting movement of a stationary background portion of the aligned images after the aligning step; and~~

adjusting the selected portion that is displayed for at least one of the plurality of images, said adjusting step compensating for inadvertent movement of the video camera found in the determining step with adjustments that minimize the image difference.

26. (Previously Presented) The method of claim 25 wherein determining step ignores at least one moving object in the field of view.

27. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein said analysis of said first and second images includes identifying at least one moving object in the field of view and determining said stabilizing adjustment independently of said at least one moving object.

28. (Currently Amended) The video image stabilization system of claim [[1]] 30 wherein the determining step ignores at least one moving object in the first and second images.

29. (Currently Amended) The video image stabilization system of claim ~~[[9]]~~ 30 further comprising determining the presence of at least one moving object in the field of view by identifying a secondary peak in said histogram.

30. (Previously Presented) A video image stabilization system comprising:  
a camera including an image capturing device configured to capture a video image, said camera having a selectively adjustable field of view;

at least one processing device operably coupled to said system wherein said processing device receives signals indicative of the field of view of said camera and images captured by said camera, said processing device sequentially grabbing a first one of said images and a second one of said images, said processing device determining a stabilizing adjustment for the video image as a function of an intended change in the field of view of said camera during an interval between the capture of said first image and said second image based upon said signals indicative of the field of view and an analysis of said first and second images, wherein the analysis of said first and second images includes aligning said first and second images based upon said signals indicative of the field of view, generating a histogram of an image difference of said aligned images, and determining whether unintentional camera movement has occurred based upon identifying a maximum peak in said histogram and a location of said maximum peak, wherein when said maximum peak is not substantially centered on zero, unintentional motion is determined to have occurred and wherein determination of said stabilizing adjustment includes identifying adjustments that minimize said image difference.

31. (Previously Presented) A method of stabilizing a video image, said method comprising:

capturing a plurality of images with a video camera, the video camera being mounted on a stationary support and having an adjustable field of view;

adjusting the field of view of the camera;

grabbing a first image and a subsequent second image captured by the video camera;

displaying a selected display portion of each of the first and second images, the selected display portion of each image being less than the entire captured image;

determining a stabilizing adjustment for the second image as a function of an intended change in the field of view of the camera during an interval between the capture of the first image and the capture of the second image and an analysis of the first and second images wherein the

stabilizing adjustment involves adjusting a relative location of the selected display portion within the second image, the analysis of the first and second images comprising aligning one of the first and second images with the other of the first and second images based upon signals indicative of the field of view received from a system in operative communication with the camera, generating a histogram of an image difference of the aligned images, and determining whether unintentional camera movement has occurred based upon identifying a maximum peak in the histogram and a location of the maximum peak, wherein when the maximum peak is not substantially centered on zero, unintentional motion is determined to have occurred and wherein determination of said stabilizing adjustment includes identifying adjustments that minimize the image difference.